

Bend Test Details - Explanation of Results

C-Tech Ltd - P/O: Leech Samples (01/07/2002)

	Batten #	Test Lngth	Test	1/4	1/2	3/4	Front%	Back%	Camb	El results
Note 1: <input type="checkbox"/> Batten no.	#1 001129 15-1	3000	Self Weight	0	0	0				Front 0.00
	3000 mm		6.8 kg load	0	0	0				Back 0.00
	0.000 kg		Difference	0	0	0	0.00%	0.00%	0.00%	3 pt 0.00
Note 2: <input type="checkbox"/> Barcode	#2 001880 14-2	3500	Self Weight	22	28	19				Front 0.00
	3600 mm		6.8 kg load	222	255	153				Back 0.00
	0.000 kg		Difference	200	227	134	88.11%	59.03%	7.29%	3 pt 262.38
Note 3: <input type="checkbox"/> Mandrel	#2 001767 14-1	3500	Self Weight	14	16	11				Front 0.00
	3600 mm		6.8 kg load	125	162	104				Back 0.00
	1.290 kg		Difference	111	146	93	76.03%	63.70%	4.63%	3 pt 407.95
Note 4: <input type="checkbox"/> Lengths	#3 001266 14-1	4100	Self Weight	30	39	26				Front 0.00
	4200 mm		6.8 kg load	310	388	242				Back 0.00
	0.000 kg		Difference	280	349	216	80.23%	61.89%	9.46%	3 pt 274.34
Note 5: <input type="checkbox"/> Weight	#5 001912 19-1	2500	Self Weight	11	10	5				Front 0.00
	2600 mm		6.8 kg load	201	205	112				Back 0.00
	0.690 kg		Difference	190	195	107	97.44%	54.87%	8.20%	3 pt 111.31
	Sam 001746 14-1	2500	Self Weight	0	0	0				Front 0.00
	2500 mm		6.8 kg load	0	0	0				Back 0.00
	0.710 kg		Difference	0	0	0	0.00%	0.00%	0.00%	3 pt 0.00

Total Length (m) 19.50 **Length with Weights** 8.70
Total Weight (kg) 2.69 **Avg Weight (kg/m)** 0.309

Note 6: Test Results

Note 1: Batten number

Indicates batten number, from smallest at head of sail (#1) to largest at foot of sail.

Note 2: Barcode

All battens have a unique barcode near the luff end. Barcodes identify battens within the CT database so laminate and bend characteristics can be duplicated or used as a reference point for alterations.

Note 3: Mandrel

Indicates which mandrel the batten was built on. Mandrels with larger numbers have larger IDs.

Note 4: Lengths

Test length is the length over which the 3 point bend test is performed. Actual length is shown below barcode.

Note 5: Weight

Indicates weight of individual batten (in kg).

Note 6: Test results

Front %: $1/4 \text{ Difference} / 1/2 \text{ Difference}$ [eg. for Batten 01880: $200 / 227 = 88.11\%$, expressed as a percentage]

Back %: $3/4 \text{ Difference} / 1/2 \text{ Difference}$ [eg. for Batten 01880: $134 / 227 = 59.03\%$]

Camber: $1/2 \text{ Deflection (under 6.8kg load)} / \text{Test Length}$ [eg. for Batten 01880: $255 / 3500 = 7.29\%$]

Please note: bend test results for leech battens differ markedly from full length battens.